

## DOCUMENT RESUME

ED 169 329

CE 020 514

AUTHOR Underwood, Earl  
TITLE T & I--Building Construction, Wall Section. Kit No. 40. Instructor's Manual [and] Student Learning Activity Guide.  
INSTITUTION Clemson Univ., S.C. Vocational Education Media Center.; South Carolina State Dept. of Education, Columbia. Office of Vocational Education.  
SPONS AGENCY Office of Education (DHEW), Washington, D.C.  
PUB DATE 78  
GRANT SC-5058-76-I-211-0330  
NOTE 43p.  
AVAILABLE FROM Vocational Education Media Center, 10 Tillman Hall, Clemson University, Clemson, South Carolina 29631 (complete set of modules, 14 filmstrips and cassettes, \$260.00; set of 87 student modules, \$42.50)  
EDRS PRICE MF01 Plus Postage. PC Not Available from EDRS.  
DESCRIPTORS Behavioral Objectives; \*Building Trades; \*Carpenters; Construction (Process); Instructional Materials; \*Learning Activities; \*Learning Modules; Occupational Clusters; \*Occupational Information; Prevocational Education; \*Trade and Industrial Teachers

## ABSTRACT

An instructor's manual and student activity guide on building construction and making a wall section are provided in this set of prevocational education materials which focuses on the vocational area of trade and industry. (This set of materials is one of ninety-two prevocational education sets arranged around a cluster of seven vocational offerings: agriculture, home economics, distributive education, health occupations, world of work, trade and industry, and office occupations.) The instructor's guide is organized into the following elements: title of activity, duration of activity (six to ten classes), activity goals, six instructional objectives, related vocational clusters, and activity implementation (description, materials needed, safety considerations, teacher preparation prior to class, during the class, follow-up activities, answer key to a student check point activity, and masters for duplication [e.g., order form for salesperson, job supervisor's material list, check sheets, and building plans]). The student activity guide provides step-by-step instructions (narrative and illustrations) for completing each instructional objective (e.g., measure and cut wood to correct size, assemble and nail the wood together). At the end of each set of instructions is a student check point (evaluation activity). Occupational descriptions for a carpenter's supervisor and house builder conclude the document.  
(JH)

\*\*\*\*\*  
\* Reproductions supplied by EDRS are the best that can be made \*  
\* from the original document. \*  
\*\*\*\*\*

ED169329

**T & I - BUILDING CONSTRUCTION, WALL SECTION**

**Kit No. 40**

**INSTRUCTOR'S MANUAL**

**Prepared by**

**Mr. Earl Underwood  
Woodruff Jr. High  
Woodruff, South Carolina 29388**

**State Department of Education  
Office of Vocational Education  
Prevocational Education  
Columbia, South Carolina 29201**

**In Cooperation With**

**Vocational Education Media Center  
Clemson University  
Clemson, South Carolina 29631**

**1978**

U.S. DEPARTMENT OF HEALTH,  
EDUCATION & WELFARE  
NATIONAL INSTITUTE OF  
EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY.

PERMISSION TO REPRODUCE THIS MATERIAL IN MICROFICHE ONLY HAS BEEN GRANTED BY

*Art Jensen*  
TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC) AND USERS OF THE ERIC SYSTEM

CE 020 514

*These materials have been developed from funds  
provided by Grant SC-5058-76-I-211-0330 under the  
Appalachian Regional Development Act Amendments of 1967,  
Department of Health, Education and Welfare, Office of Education.*

## TITLE OF ACTIVITY

Kit No. 40, T & I — Building Construction, Wall Section

## DURATION

Main Activity — 5 to 7 class periods  
Follow-up Activity — 1 to 3 class periods

## GOALS

The students will be able to use tools to measure and cut wood.

The students will be able to follow a simple blueprint.

The students will be able to assemble pieces of wood to make a part of a building.

The students will take orders and figure costs.

## INSTRUCTIONAL OBJECTIVES

The salesperson will take the order from the job supervisor.

The salesperson will get the materials together to be delivered.

The deliveryperson will deliver the materials to his/her assigned group.

The student will measure and cut the wood to the correct size.

The students will assemble and nail the wood together.

The students will place the plywood on the frame and nail it into place.

## VOCATIONAL CLUSTERS

Office Occupations  
Trade and Industry

## ACTIVITY IMPLEMENTATION

### A. Activity Description

The students will construct a scale model of a wall section. They will use hand tools to complete their work. The class will be divided into small groups with each group having a certain assignment. The students will learn how to estimate cost. To construct two more

walls, it would be necessary to double the expendable materials for Groups E and F. Two more groups or more students could be added in Groups E and F to build the two walls.

### B. Safety

Handle tools carefully to avoid injury.

Do NOT put hand in front of saw when cutting with the saw.

Watch hands while hammering to avoid hitting them.

### C. Materials Required

Audio Visual Equipment — None

#### Technical Equipment

- 3 handsaws (crosscut)
- 6 curved claw hammers, 16 oz. (453.6 g)
- 3 try squares
- 3 push-pull tapes
- 1 skill saw, 7 inches
- 2 flexible mask goggles

#### Expendable Materials

- 5 pieces of 2" x 4" studs (5.08 cm x 10.16 cm)
- 2 pieces of 2" x 6" x 8' board (5.08 cm x 15.24 cm x 2.43 m)
- 1 piece ½" plywood 4' x 8' (1.22 x 2.44 m x 1.27 cm)
- 5 lbs. nails 16dcc (2.26 kg)
- 5 lbs. nails 8dcc (2.26 kg)

### D. Preparation Prior To Class

The teacher will need to duplicate the handout sheets. The teacher will also need to order the expendable materials.

The instructor will need to divide the class into groups and make assignments. The plywood will have to be laid out and cut as shown in the illustration, page 12. However, the instructor may want to assign a group to cut the plywood during class. The teacher will need to get house plans out of a newspaper.

### E. During Class Session

INTRODUCTION — During the next several class periods, we will be studying the area of building construction. You will be

building different parts of a building in your small groups. You will be using hand tools to construct your project. Work carefully to avoid injury.

#### TO THE TEACHER

Have students cut house plans out of newspaper (usually the Sunday paper).

Tell students of their group assignments.

Go over flow chart with students. Walk through the process with the students.

Give the students the handout sheets they need.

Have the groups start the activity.

As the groups are working, go from group to group to answer questions and check progress of their work.

When the project has been completed, you will need to cover estimating the cost of building a house. The students will need their floor plan. To figure costs it is first necessary to find the square footage (length times width). After you find the square footage, then multiply the footage times the cost per foot. The cost per foot may vary from area (place) to area (place).

Example of figuring cost to build a house.

$$\begin{aligned} 32' \times 76' &= 2432 \text{ sq. ft.} \\ (9.75 \text{ m} \times 23.16 \text{ m} &= 225.9 \text{ sq. m}) \end{aligned}$$

$$\begin{array}{r} 2,432 \\ \times \$25 \\ \hline 12,160 \\ 48,640 \\ \hline \$60,800 \end{array}$$

#### F. Follow-up Activities

Have students fill out VIEW Fact Sheet

Interview with building contractors

Trips to where buildings are being built

Trip to Vocational School

#### ANSWER KEY

The answer key for the order form for the salesperson is on the following page.

#### MASTERS FOR DUPLICATION

VIEW Fact Sheet (Need 25 copies)

Order Form for Salesperson (Need 2 copies)

Job Supervisor's Material List (2 copies)

Check Sheets

Group D (Need 5 copies)

Group E (Need 5 copies)

Group F (Need 5 copies)

Group G (Need 5 copies)

Flow Chart (Need 25 copies)

Plan to Cut Plywood (Need 2 copies)

Plans for

Group D (Need 5 copies)

Group E (Need 5 copies)

Group F (Need 5 copies)

Group G (Need 5 copies)

# ORDER FORM FOR SALESPERSON

## ANSWER KEY

| QUANTITY | DESCRIPTION                                            | UNIT COST     | TOTAL COST           |
|----------|--------------------------------------------------------|---------------|----------------------|
| 5        | 2" x 4" studs<br>(5.08 cm x 10.16 cm)                  | \$ 1.30       | \$ 6.50              |
| 2        | 2" x 6" x 8' studs<br>(5.08 cm x 15.24 cm x<br>2.44 m) | \$ 1.60       | \$ 3.20              |
| 5 lbs.   | 16 d common coated nails                               | \$ .45 lb.    | \$ 2.25              |
| 5 lbs.   | 8 d common coated nails                                | \$ .45 lb.    | \$ 2.25              |
| 1 sheet  | ½" (1.27 cm) sheet plywood                             | \$12.00 sheet | \$12.00              |
|          |                                                        |               | Sub<br>Total \$26.20 |
|          |                                                        |               | Tax 1.05             |
|          |                                                        |               | Total \$27.25        |

# VIEW FACT SHEET

NAME \_\_\_\_\_ CLASS \_\_\_\_\_ OCCUPATION \_\_\_\_\_

- A. List the advantages (good points) of this occupation (job).
- B. List the disadvantages (bad points) of this occupation (job).
- C. List three things you should know to do this occupation (job).
  - 1.
  - 2.
  - 3.
- D. What type of education should you get to be prepared (do) for this occupation (job)?
- E. What courses must you take to go into this occupation (job)?
- F. What do you think your future in this occupation (job) will be?
- G. What wage can you expect in this occupation (job)?
- H. What are the working hours of this occupation (job)?
- I. To learn more about this occupation (job), write to:
- J. Using a scale of 1 to 5, circle the number that measures your interest in this occupation (job) as a possible career.

I don't like it.      ←————→      I like it.  
                                 1 2 3 4 5

# ORDER FORM FOR SALESPERSON

| QUANTITY | DESCRIPTION                                         | UNIT COST     | TOTAL COST          |
|----------|-----------------------------------------------------|---------------|---------------------|
|          | 2" x 4" studs<br>(5.08 cm x 10.16 cm)               | \$ 1.30       |                     |
|          | 2" x 6" x 8' studs<br>(5.08 cm x 15.24 cm x 2.44 m) | \$ 1.60       |                     |
|          | 16 d common coated nails                            | \$ .45 lb.    |                     |
|          | 8 d common coated nails                             | \$ .45 lb     |                     |
|          | ½" (1.27 cm) sheet plywood                          | \$12.00 sheet |                     |
|          |                                                     |               | Sub-<br>Total _____ |
|          |                                                     |               | Tax _____           |
|          |                                                     |               | Total _____         |

## JOB SUPERVISOR'S MATERIAL LIST

### Group D

2 pc 2" x 6" x 8' (5.08 cm x 15.24 cm x 2.44 m)

1 pc plywood ½" x 2' x 4' (1.27 cm x 1.22 m x 2.44 m)

Nails 1½ lbs. 16 d common coated nails (.68 kg)  
1½ lbs. 8 d common coated nails (.68 kg)

### Group E

3 pc 2" x 4" stud (5.08 cm x 10.16 cm)

1 pc plywood ½" x 2' x 4' (1.27 cm x 1.22 m x 2.44 m)

Nails 1½ lbs. 16 d. common coated nails  
1½ lbs. 8 d common coated nails

### Group F

2 pc 2" x 4" studs (5.08 cm x 10.16 cm)

1 pc plywood ½" x 2' x 17" (1.27 cm x .61 m x 43.18 cm)

Nails 1½ lbs. 16 d common coated nails  
1½ lbs. 8 d common coated nails

CHECK SHEET FOR GROUP D

REQUIREMENTS

COMPLETED

Instructional Objective I

2 pc 2" x 6" x 4' (5.08 cm x 15.24 cm x 1.22 m)  
4 pc 2" x 6" x 21" (5.08 cm x 15.24 cm x 53.34 cm)

\_\_\_\_\_  
\_\_\_\_\_

Instructional Objective II

Frame assembled

\_\_\_\_\_

Instructional Objective III

Plywood attached to frame

\_\_\_\_\_

CHECK SHEET FOR GROUP E

REQUIREMENTS

COMPLETED

Instructional Objective I

2 pcs 2" x 4" x 48" (5.08 cm x 10.16 cm x 121.92 cm)

\_\_\_\_\_

5 pcs 2" x 4" x 21" (5.08 cm x 10.16 cm x 53.34 cm)

\_\_\_\_\_

Instructional Objective II

Frame completed

\_\_\_\_\_

Instructional Objective III

Plywood attached to frame

\_\_\_\_\_

CHECK SHEET FOR GROUP F

REQUIREMENTS

COMPLETED

Instructional Objective I

2 pc 2" x 4" x 17" (5.08 cm x 10.16 cm x 43.18 cm)

\_\_\_\_\_

4 pc 2" x 4" x 21" (5.08 cm x 10.16 cm x 53.34 cm)

\_\_\_\_\_

Instructional Objective II

Frame assembled

\_\_\_\_\_

Instructional Objective III

Plywood attached to frame

\_\_\_\_\_

**CHECK SHEET FOR GROUP G**

**REQUIREMENTS**

**COMPLETED**

**Instructional Objective I**

Group E wall in place

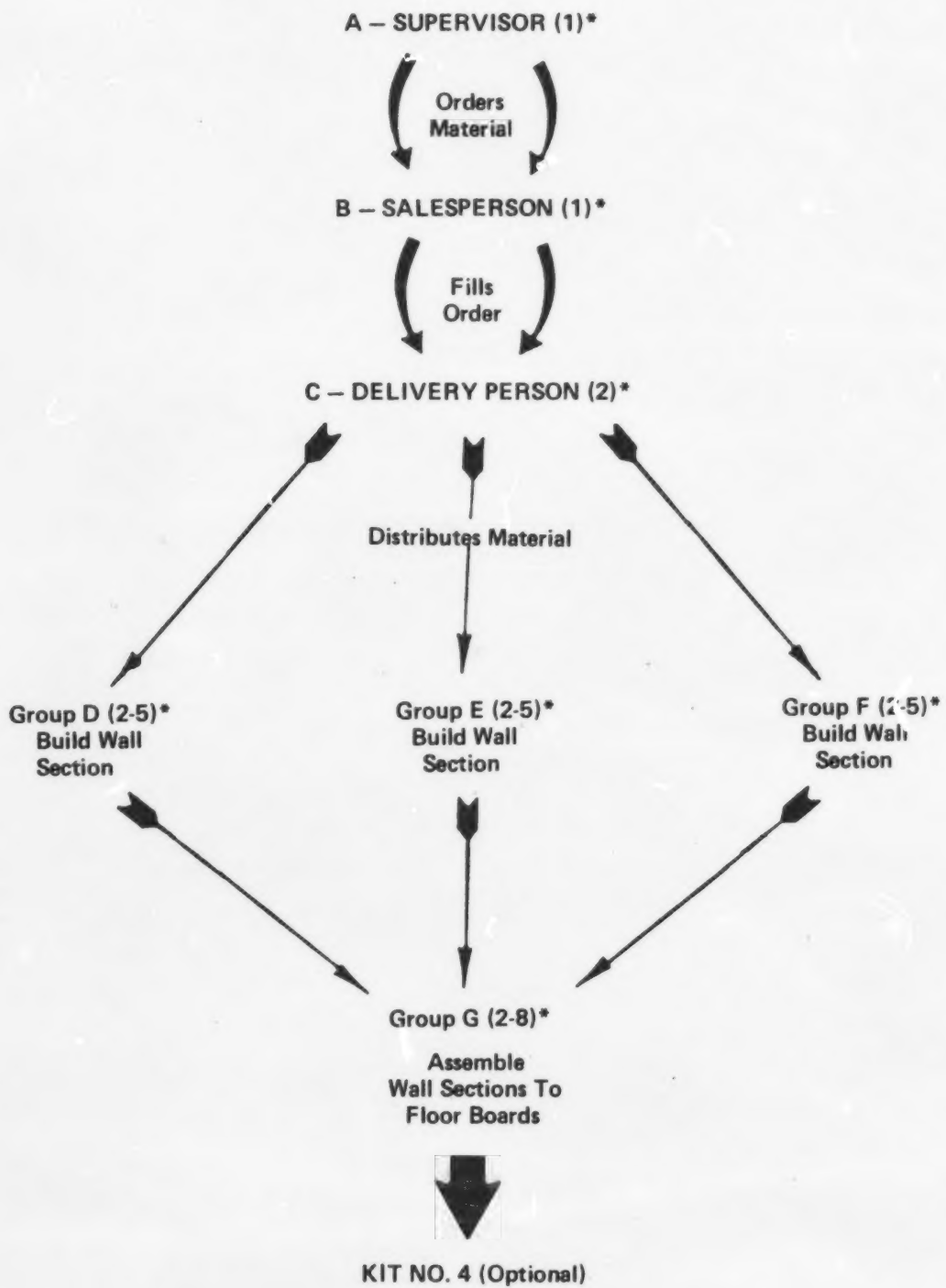
\_\_\_\_\_

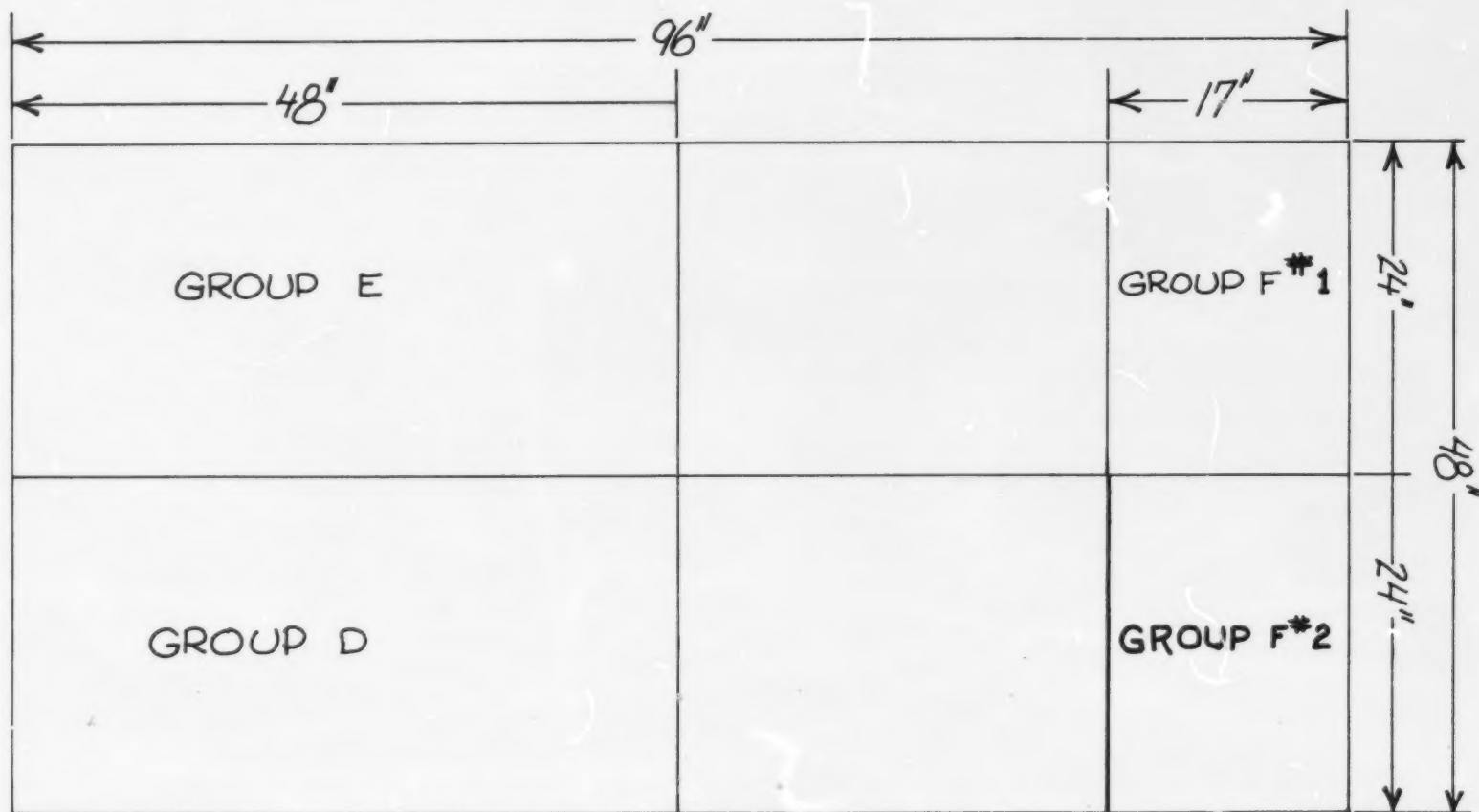
**Instructional Objective II**

Group F wall in place

\_\_\_\_\_

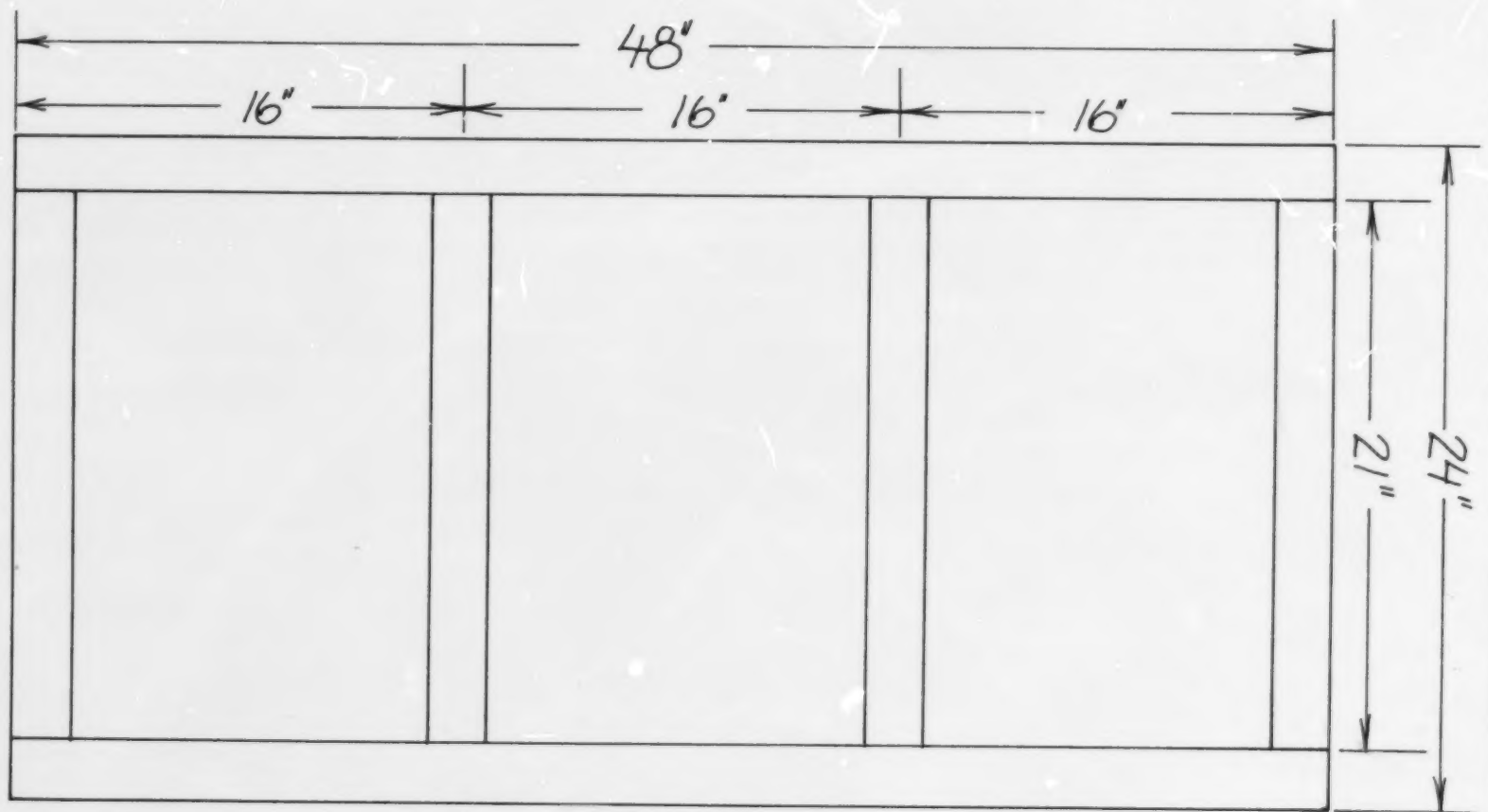
# FLOW CHART





PLAN TO CUT PLYWOOD

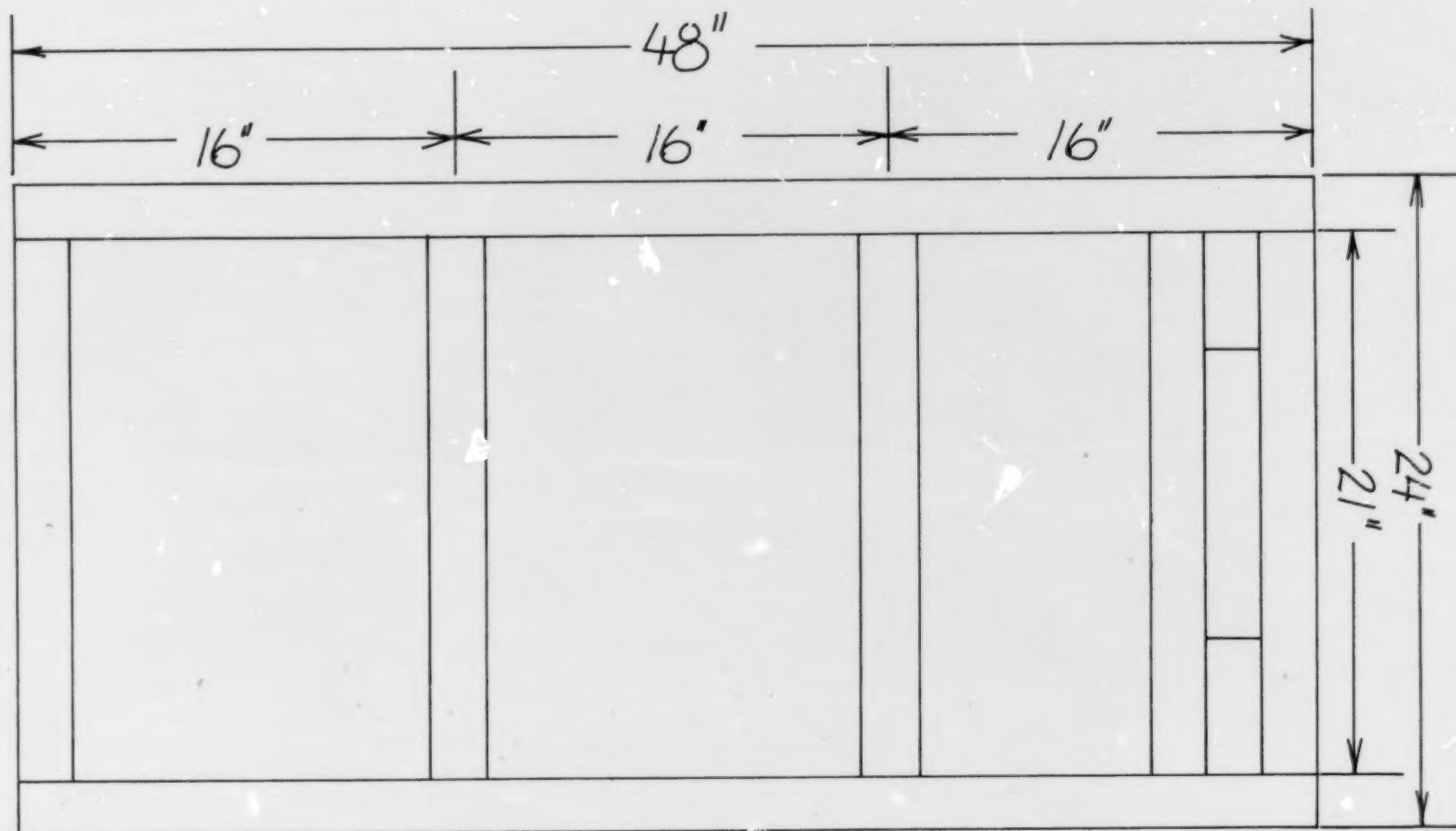
SCALE 1"=12" OR 1'



PLAN FOR GROUP D

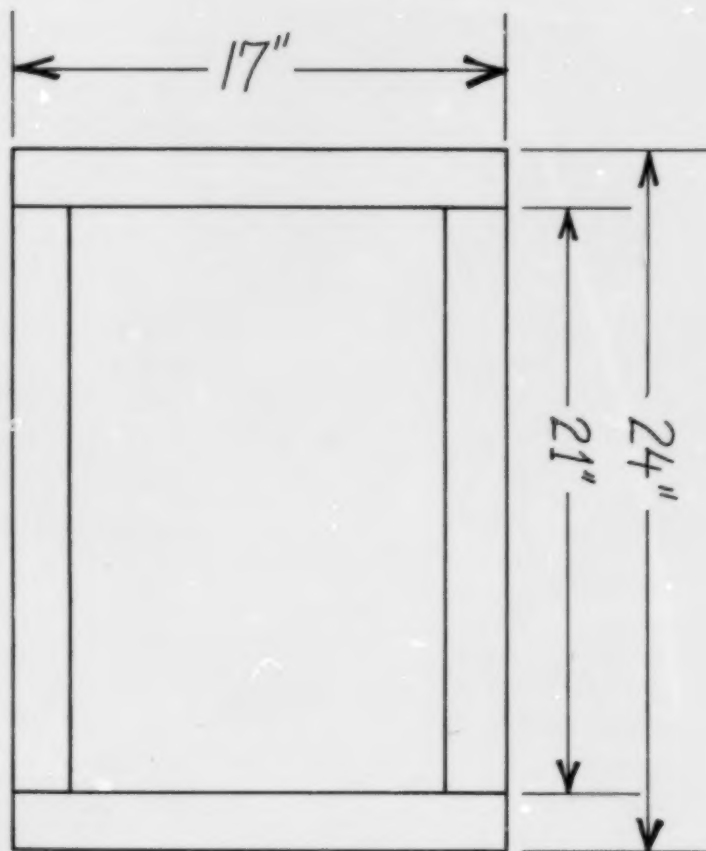
SCALE 2"=12" OR 1'

\* 2" x 4" BLOCK



PLAN FOR GROUP E

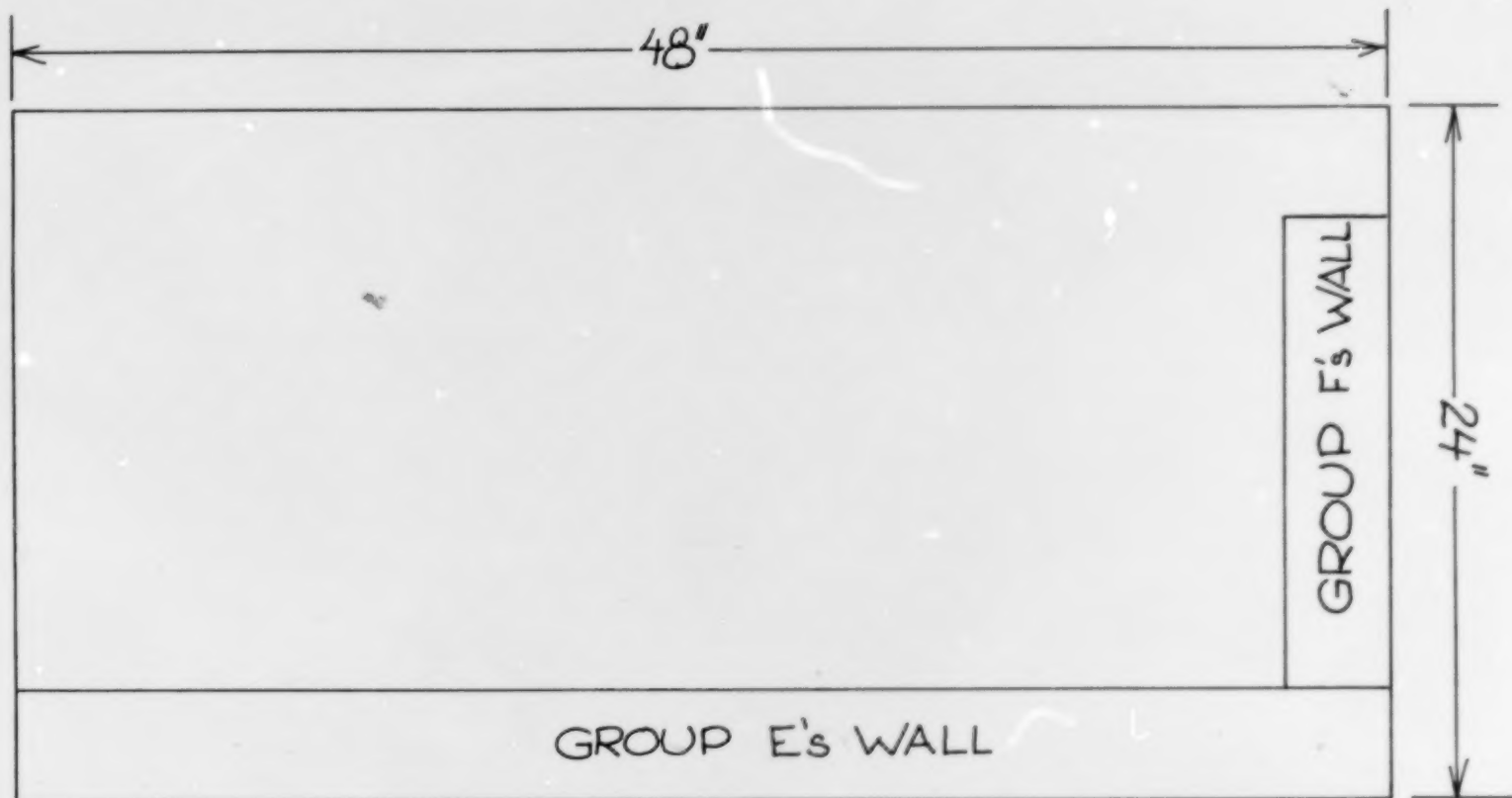
SCALE 2"=12" or 1'



\* MAKE 2 WALL  
SECTIONS

PLAN FOR GROUP F

SCALE 2" = 12" or 1'



PLAN FOR GROUP G

SCALE 2" = 12" OR 1'

**T & I - BUILDING CONSTRUCTION, WALL SECTION**

**Kit No. 40**

**STUDENT  
LEARNING ACTIVITY GUIDE**

**Prepared by**

**Mr. Earl Underwood  
Woodruff Jr. High  
Woodruff, South Carolina 29388**

**State Department of Education  
Office of Vocational Education  
Prevocational Education  
Columbia, South Carolina 29201**

**In Cooperation With**

**Vocational Education Media Center  
Clemson University  
Clemson, South Carolina 29631**

**1978**

## T & I BUILDING CONSTRUCTION, WALL SECTION

### INTRODUCTION

During this activity, you will be learning about the area of building construction. There are many areas that can be covered in this activity.

You will be working in groups using hand tools to complete the project. During the next several class periods, you will build a wall section similar to that found in a house.

### DIRECTIONS

Follow each step carefully.

Read through the step carefully before starting.

Study flow chart so that you will know where you are supposed to go.

Handle the tools carefully to avoid injury to you or others while working in the groups.

Make sure to have the inspector check the check sheet when he/she is to mark it.

The inspector will need to obtain the check sheet for his/her group.

The salesperson will need to obtain his/her order form.

The job supervisor will need to obtain his/her material list.

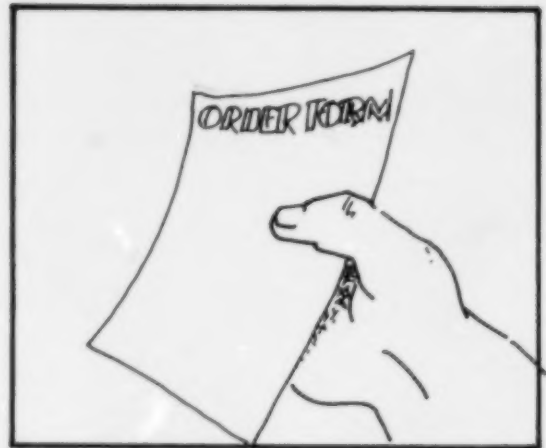
### PROGRAMMED TEXTS

GROUPS: A, B, and C

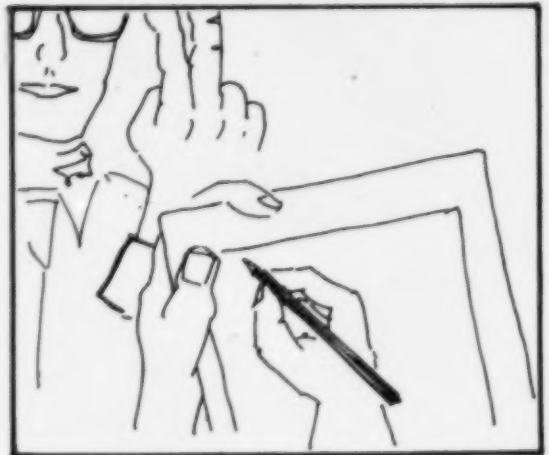
Salesperson:

## Instructional Objective 1

The salesperson will take order from the job supervisor.



STEP 1 – The student will pick up order form.



STEP 2 – The student will take order from the job supervisor and write it on the order form.

## Check Point

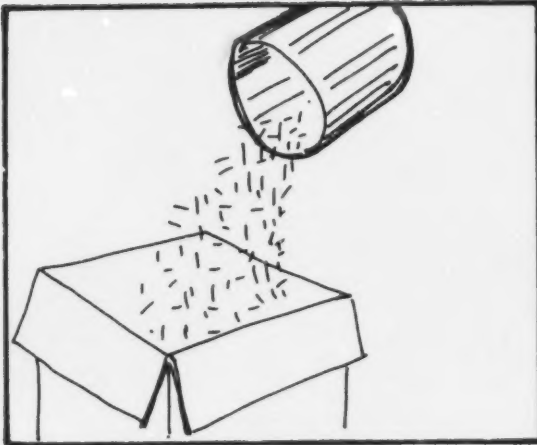
Do you have your order form prepared correctly?

## Instructional Objective II

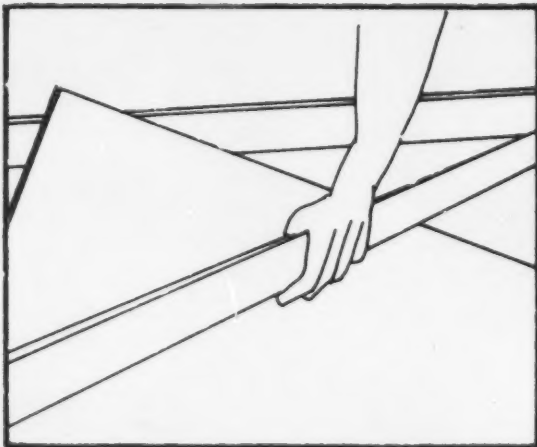
The salesperson will get the materials together to be delivered.

## Check Point

Are the materials ready to be delivered?



STEP 1 — The salesperson will get the nails and put them in a box.



STEP 2 — The student will get the wood together.

Deliveryperson:

## Instructional Objective III

The deliveryperson will deliver the materials to his/her assigned group.



STEP 1 — The student will pick up the materials and carry them to his/her group.

## Check Point

Did you deliver the materials to your group?

Inspectors:

## Instructional Objective IV

The inspectors (the salesperson and delivery person) watch their assigned group build the project.



STEP 1 — The students will measure the cut boards to make sure they are the correct length (size).



STEP 2 — The students will make sure the blueprints are followed.

## Check Point

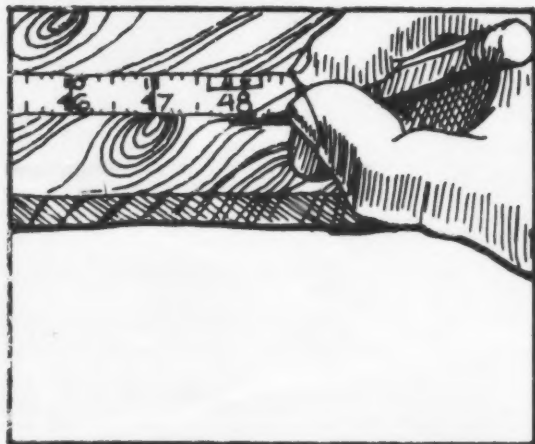
Were measurements correct and blueprints followed?

PROGRAMMED TEXT  
GROUP D

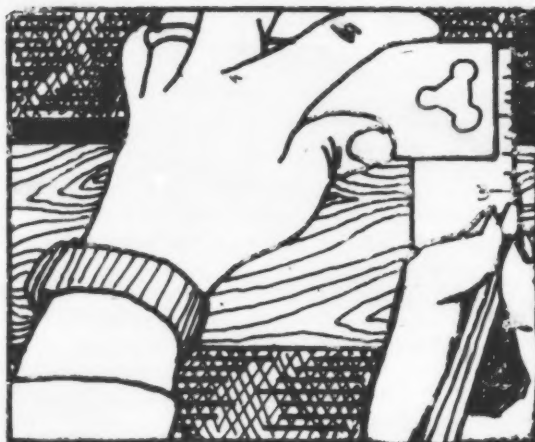
The job supervisor will measure and mark materials to be cut. He/she will help assemble materials. The inspector will check materials after the wood has been cut. He/she will make sure the section is assembled correctly, and will mark the check sheet when needed.

## Instructional Objective 1

The students will measure and cut the wood to the correct size.



STEP 1 — The job supervisor will measure four feet (1.22 m) on the 2" x 6" (5.08 cm x 15.24 cm) and mark it.

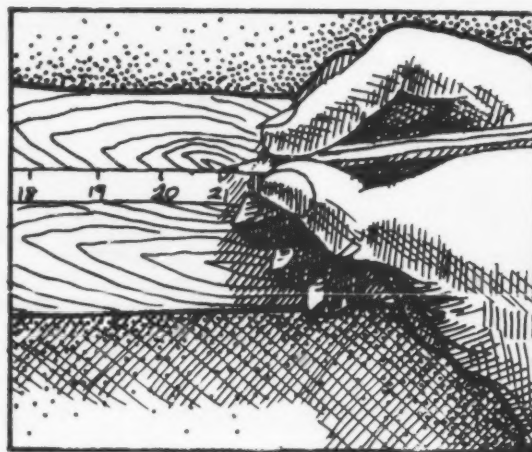


STEP 2 — The two workers will cut the 2" x 6" (5.08 cm x 15.24 cm) where it is marked. One will hold while the other one cuts.

STEP 3 — Repeat steps one and two.

## Check Point

Have the inspector check your work and mark check sheet.



STEP 4 — The supervisor will measure and mark 21" (53.34 cm) on the other 2" x 6" (5.08 cm x 15.24 cm).



STEP 5 — The workers will cut the 2" x 6" on the mark (5.08 cm x 15.24 cm).



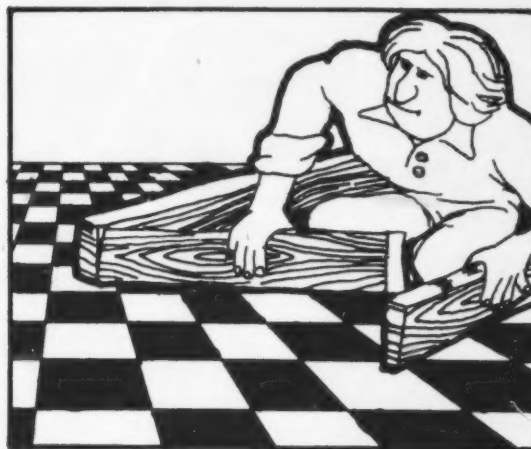
STEP 6 — Repeat steps 4 and 5 until you have cut four 2" x 6" x 21" long. (5.08 cm x 15.24 cm x 53.34 cm)

## Check Point

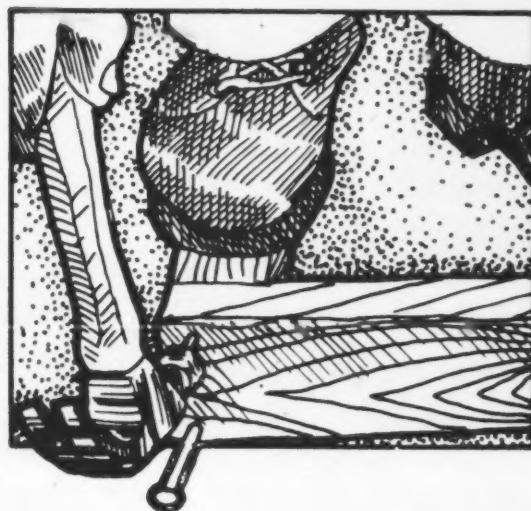
Have the inspector check your work and mark on check sheet.

## Instructional Objective

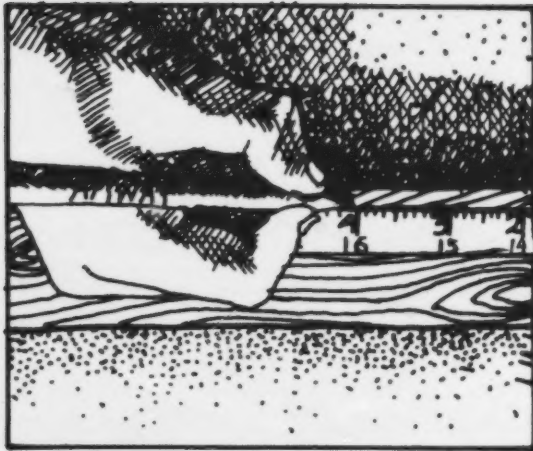
The students will assemble and nail the 2x 6 together following the worksheet.



STEP 1 — The workers will put the shorter pieces between the two longer pieces at each end.



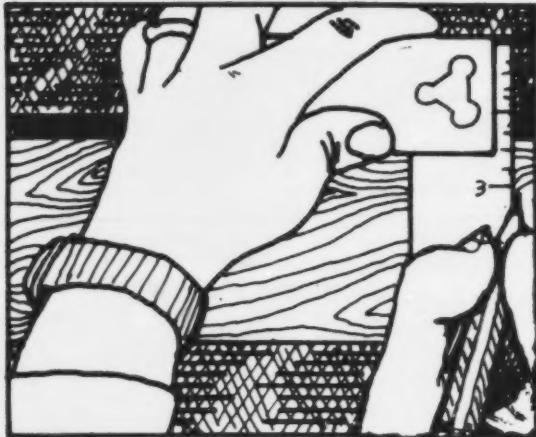
STEP 2 — Nail the pieces together using the larger nails. One can nail while the other(s) holds. Students should switch positions so that each will have a chance to do each job.



## Check Point

Have inspector check your work.

STEP 3 — The job supervisor will mark 16 inches (40.64 cm) from each end of the 2" x 6" (5.08 cm x 15.24 cm) and mark on the edge of the board. Do this on each 2" x 6".



STEP 4 — The workers will place the short 2" x 6" in place and nail them. Make sure to center the 2" x 6" in line with the mark.

## Instructional Objective III

The students will place the plywood on the frame and nail it into place.



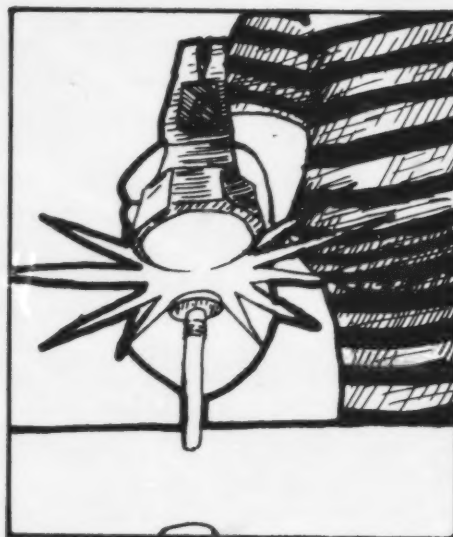
STEP 1 — Place plywood on frame.



STEP 2 — Start at one corner and nail down one side. Nail about every 10 to 18 inches (25.4 to 45.7 cm).



STEP 3 — Now you can nail across the end and down the other side.



STEP 4 — Nail across the 2" x 6" in the center.

## Check Point

Have inspector check your work and mark the check sheet.

Now take the completed part to Group G for assembly with other parts.

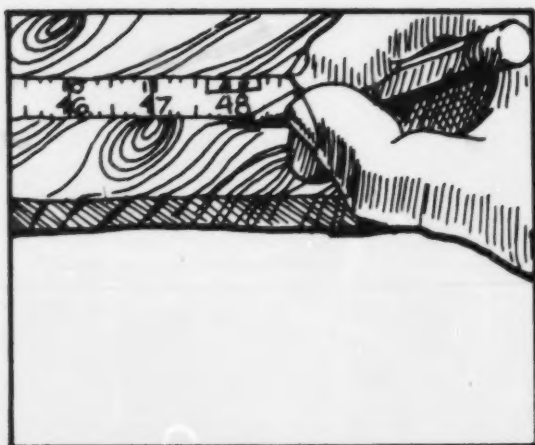
## PROGRAMMED TEXT GROUP E

The job supervisor will measure and mark materials to be cut. He/she will help assemble materials.

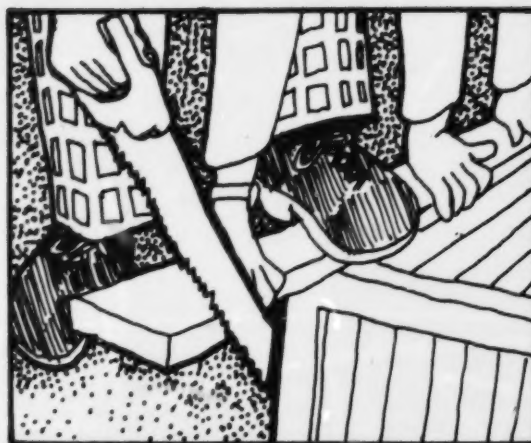
The inspector will check material after it is cut. He/she will make sure the section is assembled correctly, and will mark the check sheet when needed.

### Instructional Objective 1

The students will measure and cut the wood to the correct sizes.



STEP 1 — The job supervisor will measure 4 feet (1.22 m) on the 2" x 4" and mark it.



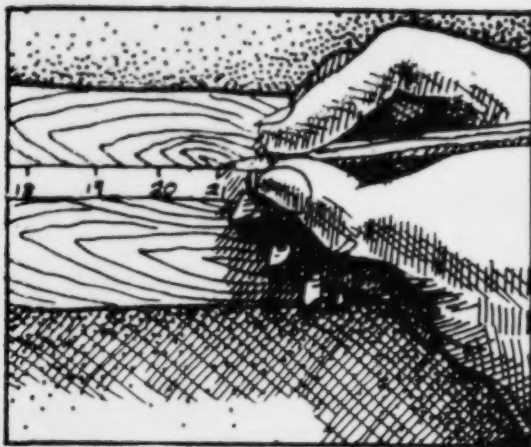
STEP 2 — The workers will cut the 2" x 4" (5.08 cm x 10.16 cm) where it is marked. One will cut while the other(s) holds the wood.



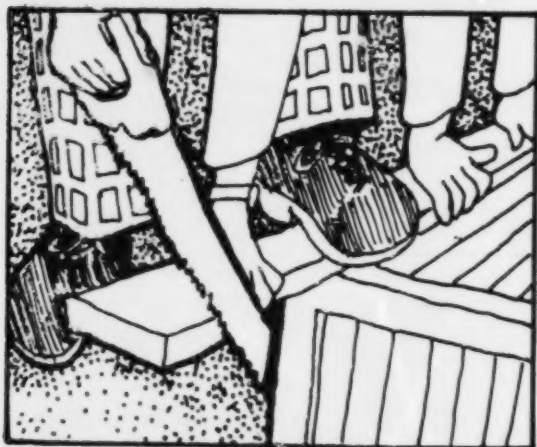
STEP 3 — Repeat steps 1 and 2 on another 2 x 4.

### Check Point

Have inspector check your work and mark it on the check sheet.



STEP 4 - The job supervisor will measure 21" (53.34 cm) on one of the 2" x 4" boards and mark it.



STEP 5 - The workers will cut the 2" x 4" where it was marked.



STEP 6 - Repeat steps 4 and 5 until you have cut 5 pieces of 2" x 4" x 21" (5.08 cm x 10.16 cm x 53.34 cm).

## Check Point

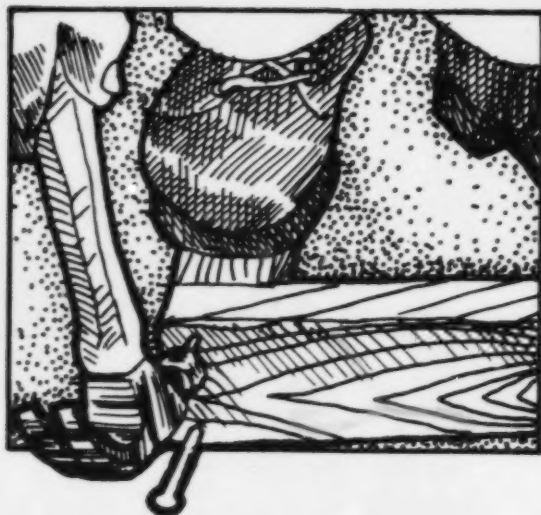
Have the inspector check your work and mark the check sheet.

## Instructional Objective II

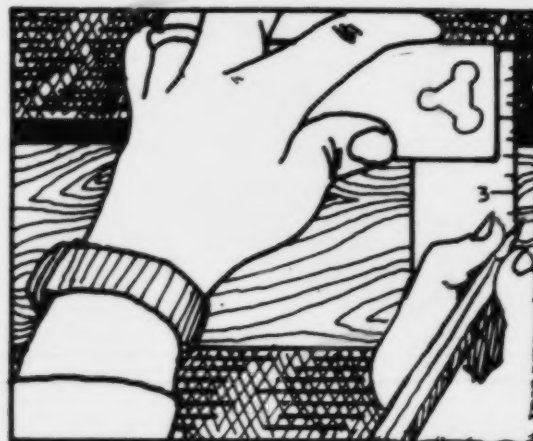
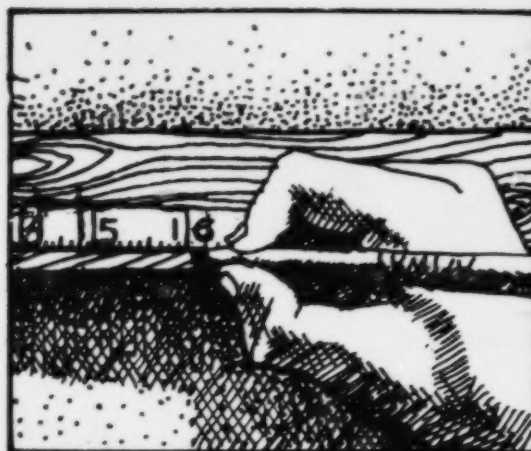
The students will assemble and nail the 2" x 4" together following the worksheet.



STEP 1 — The workers will put the shorter pieces between the two longer pieces at each end.



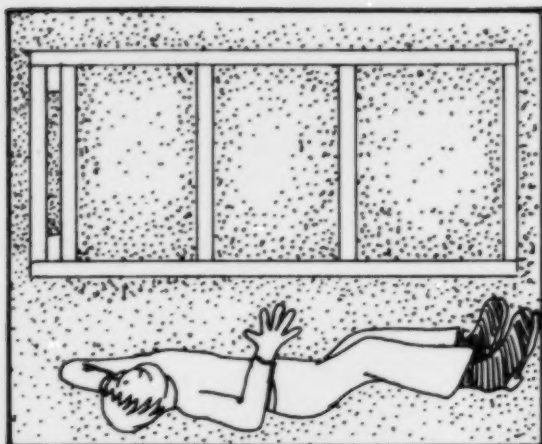
STEP 2 — Nail the pieces together using the larger nails. One can nail while the other(s) holds. Students should switch positions so that each will have a chance to do each job.



STEP 3 — The job supervisor will mark 16 inches (40.6 cm) from each end of the 2" x 4" and mark on the edge of the board. Do this on each 2" x 4" (5.08 cm x 10.16 cm).



STEP 4 — The workers will place the short 2" x 4" in place and nail them. Make sure the center of the 2" x 4" is in line with the mark.



STEP 5 – Place the last 2" x 4" in place and nail at one end to get the right space between the end 2" x 4" and this one. Place a scrap piece of 2" x 4" (5.08 cm x 10.16 cm) at the top and bottom before nailing.

## Check Point

Have inspector check your work.

## Instructional Objective

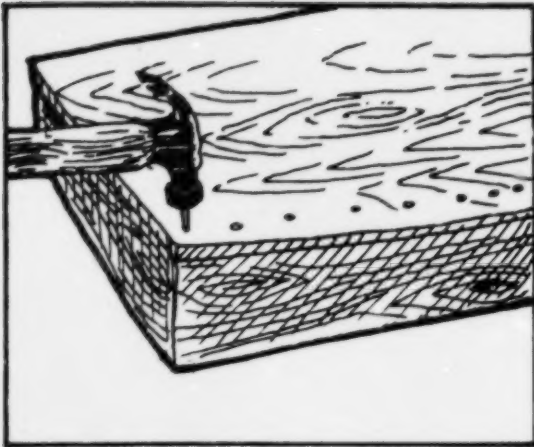
The students will place the piece of plywood on the frame and nail it.



STEP 1 – Place the plywood on the frame.



STEP 2 – Start at one corner and nail down one side and nail about every 16 to 18 inches (40.6 to 45.7 cm).



STEP 3 – Nail across the end and other side.



STEP 4 – Nail across the other 2" x 4" (5.08 cm x 10.16 cm).

## Check Point

Have the inspector check your work and mark the check sheet.

Now take the completed part to Group G for assembly with other parts.

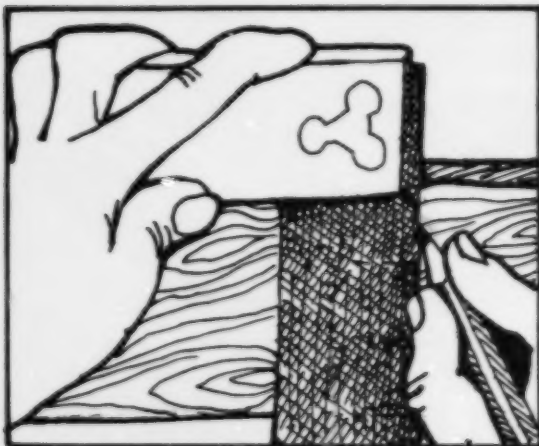
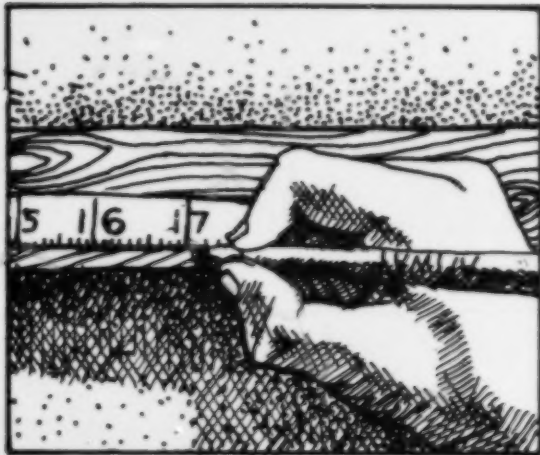
**PROGRAMMED TEXT  
GROUP F**

The job supervisor will measure and mark the materials to be cut. He/she will help assemble materials.

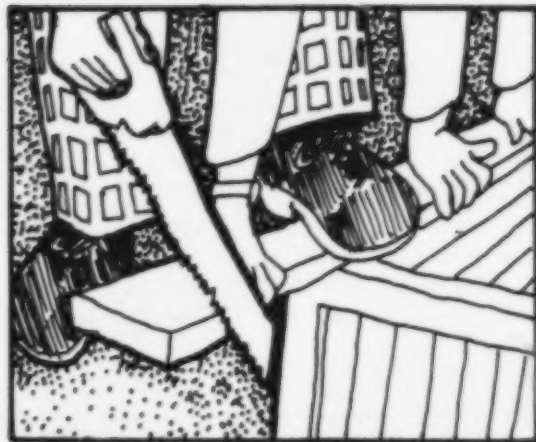
The inspector will check the materials after it is cut. He/she will make sure the section is assembled correctly, and will mark check sheet when needed.

**Instructional  
Objective 1**

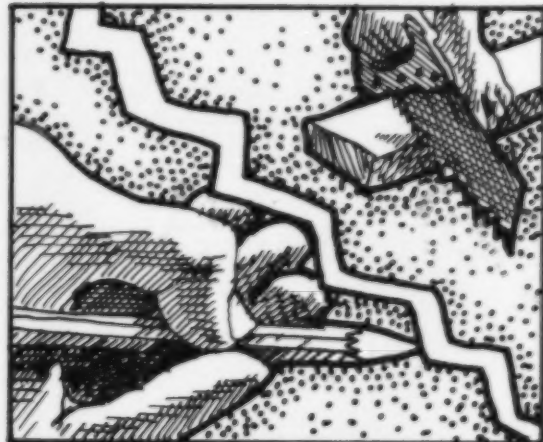
The students will measure and cut the wood to the correct size.



**STEP 1** – The job supervisor will measure 17" (43.2 cm) on one 2" x 4" (5.08 cm x 10.16 cm) and mark it.



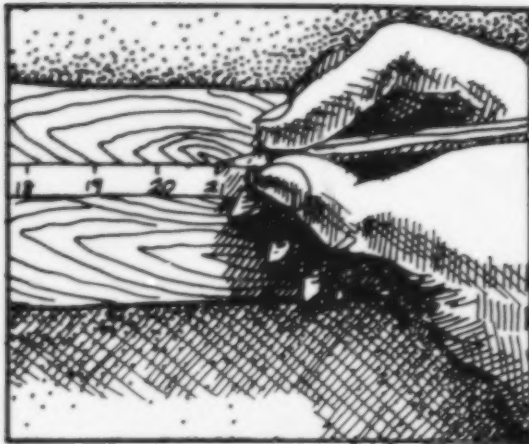
**STEP 2** – The workers will cut the 2" x 4" where it is marked. One can cut while the other(s) holds the wood.



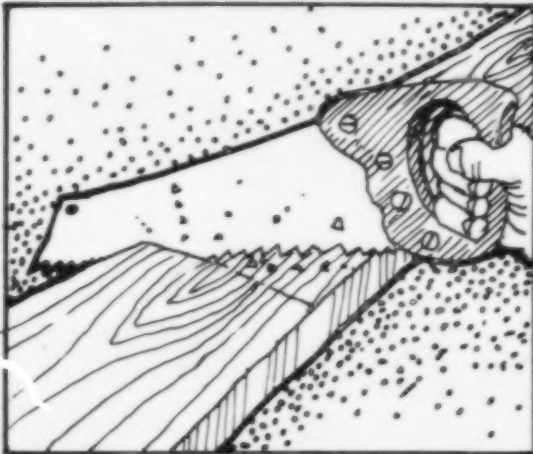
**STEP 3** – Repeat steps 1 and 2.

**Check Point** 

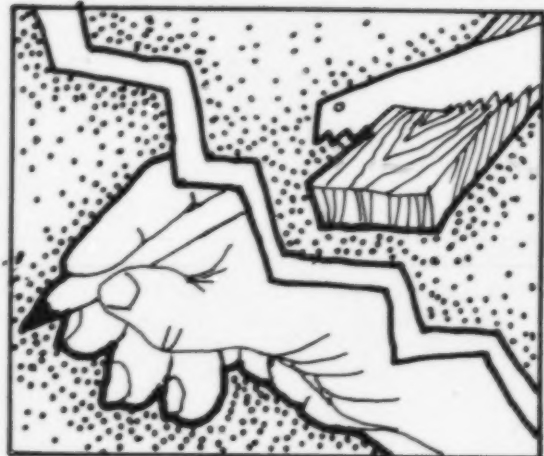
Have the inspector check your work and mark it on the check sheet.



STEP 4 – The job supervisor will measure 21" (53.3 cm) on the 2" x 4" and mark it.



STEP 5 – The workers will cut the 2" x 4" where it was marked.



STEP 6 – Repeat steps 4 and 5 until you have cut 5 pieces 2' x 4' x 21" (.61 m x 1.22 m x 53.34 cm).

**Check Point** 

Have the inspector check your work and mark the check sheet.

## Instructional Objective II

The students will assemble and nail the 2" x 4" (5.08 cm x 10.16 cm) together, following the worksheet.



STEP 1 – The students will place the shorter pieces (17") between the two longer pieces (21") at each end.



STEP 2 – Nail the pieces using the larger nails. One worker can nail while the other(s) holds. Students should switch positions so that each will have a chance to do each job.

## Check Point

Have the inspector check your work and mark the check sheet.

## Instructional Objective III

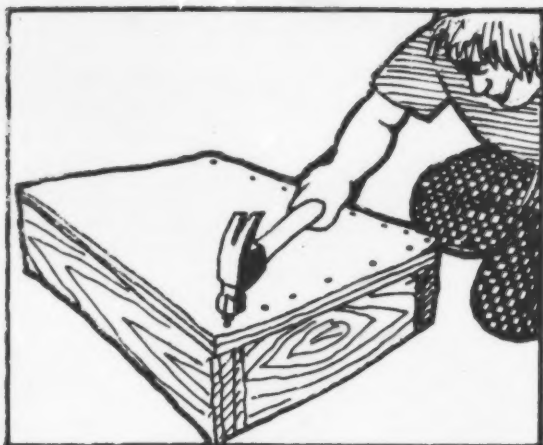
The students will place the piece of plywood on the frame and nail it.



STEP 1 – Place the plywood on the frame.



STEP 2 – Start at one corner and nail down one side. Nail every 10 to 12 inches (25.4 cm to 30.48 cm).



STEP 3 — Nail across the end and other side.

STEP 4 — Repeat Objectives I, II, and III, to construct another wall section identical to the one just completed. Workers will switch roles in the construction of the second wall section.

## Check Point

Have the inspector check your work and mark the check sheet.

Take the completed part to Group G for assembly with other parts.

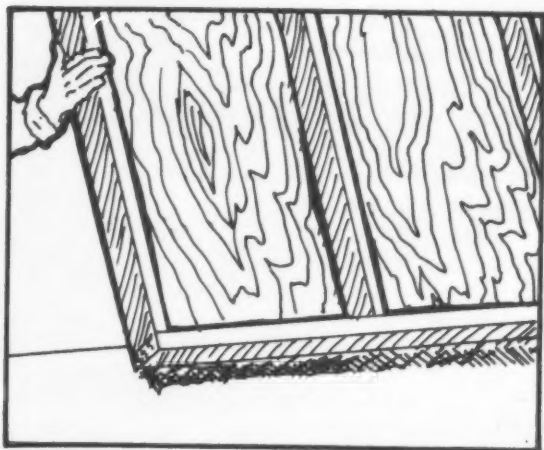
**PROGRAMMED TEXT**  
**Group G**

The job supervisor will show the workers where to put the parts of the project.

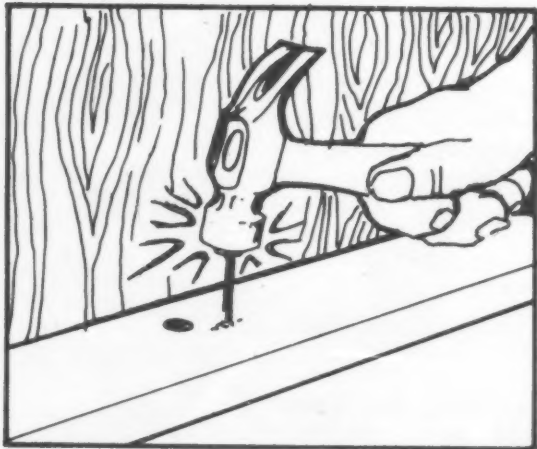
The inspectors will make sure the parts are put together properly.

**Instructional  
Objective** 1

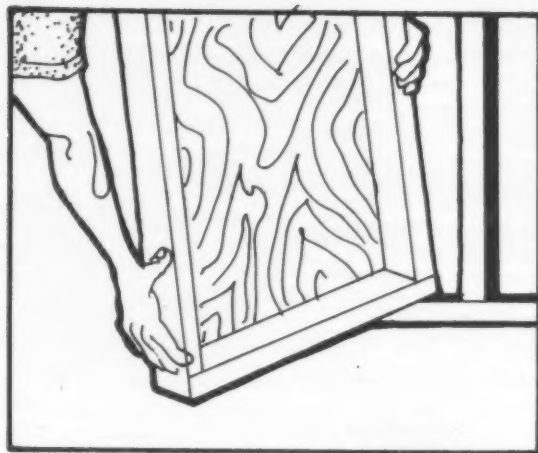
The students will put the parts in place and nail them in place.



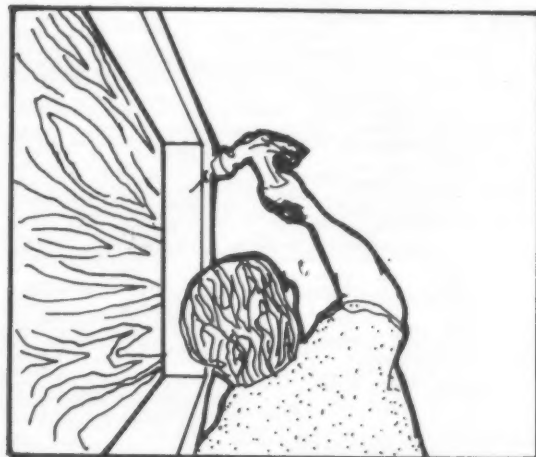
**STEP 1** — The workers will place the side made by Group D on the floor along the four foot (1.22 m) length.



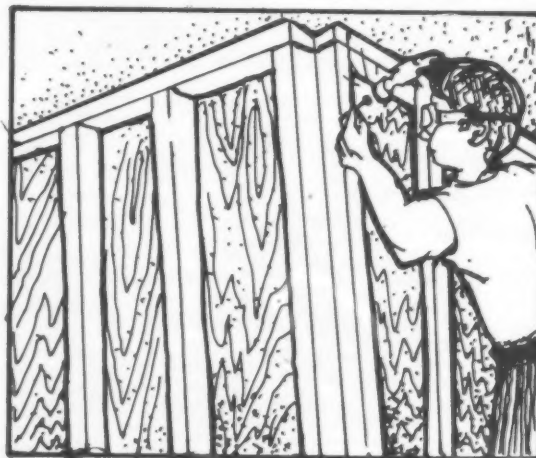
**STEP 2** — Nail the side to the floor by nailing the 2" x 4" (5.08 cm x 10.16 cm) next to the floor. Use the large nails.



**STEP 3** — Place the side made by Group F on the floor along the 17" (43.2 cm) side.



**STEP 4** — Nail this side in place.

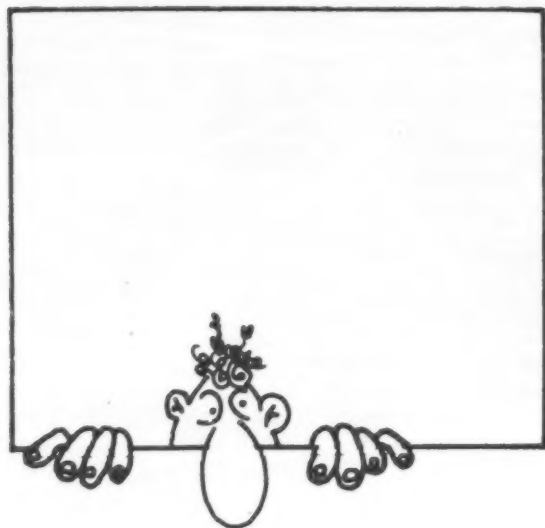


**STEP 5** — Nail up the 2" x 4" in corner.

STEP 6 — Repeat Objective I using the 4 foot (1.22 m) wall section constructed by Group E and the other 17" (43.2 cm) wall section constructed by Group F.

## Check Point

Have the inspector check your work and mark check sheet.



## OCCUPATIONAL DESCRIPTIONS

### 860.131-018 SUPERVISOR, CARPENTERS (const.)

Supervises and coordinates activities of workers engaged in construction, installation, and repair of wooden structures and fixtures. Examines blueprints to determine dimensions of structure. Lays out floorplan and cabinetwork, using rule, framing square, and calipers. Selects materials and structural units, such as lumber, prefabricated doors, and cabinets of wood or plastic, and paneling, and inspects them to insure conformance with provisions of building code and local ordinance. Determines sequence of activities concerned with fabrication, assembly, and erection of structure. Assigns workers to such tasks as cutting material to size, building concrete forms, erecting wooden framework, and laying flooring. Inspects work performed by subcontractors, including ductwork, wiring, and pipe installations, to insure conformance with specifications. Installs doors, builds stairs, and lays hardwood floors. May supervise workers engaged in building timber structures, such as cofferdams, trestles, and supports for concrete forms. May make cost estimates for contracts. Perform other duties as described under SUPERVISOR (any ind.). May be designated according to area of specialization as BOWLING-ALLEY-INSTALLATION SUPERVISOR (const.); COFFERDAM-CONSTRUCTION SUPERVISOR (const.); FORM-BUILDING SUPERVISOR (const.); TIMBERING SUPERVISOR (const.).

### 869.281-014 HOUSE BUILDER (const.)

Builds and repairs houses, barns, commercial buildings, garages, and similar structures according to rough sketches or verbal orders, performing typically the duties of several building trades craftsmen, especially those of BRICKLAYER (const.); CARPENTER (const.); PAINTER (const.); PAPERHANGER (const.) and PLASTERER (const.). Worker is not an expert in any one trade, and workmanship usually does not possess the finish of more specialized workers. May prepare own building plans. May sublet portions of work to specialists. This job is generally found in rural areas where specialists in individual building trades are not available.